

**REMARKS**

The Office Action dated September 22, 2004 has been carefully considered. Claims 1, 2, 4, 5, 12, 13, 15, 16, 17, 19, 20-22, 27, 31, 33-34, 37-39, 45, 46, 48-50, 52-55, 61-63, 66-68, 70, 71, 78, 79, 81, 82, and 85-88 have been amended. Claims 3, 36, and 69 have been cancelled. Claims 100 and 101 have been added. Claims 1, 2, 4-35, 37-68, and 70-101 are in this application.

The previously submitted claims were rejected under 35 U.S.C. § 112 indefinite for not providing proper antecedent basis. Applicants submit that the present claims meet the guidelines set forth in 35 U.S.C. § 112. Claims 1, 34 and 67 have been amended to more clearly define the present invention. Support for the amendments to claims 1, 34 and 67 is found throughout the specification and in particular on page 7, lines 5-7, 13-15 and page 16, lines 16-25. Support for new claims 100 and 101 is found throughout the specification and in particular on page 13, lines 18-23 and claim 6, page 18, lines 10-15. No new matter has been entered.

The Examiner indicated that claims 5-12, 16, 38-45, 49, 71-78 and 82 are allowable if rewritten in independent form to include the limitations of the base claim and any intervening claims. Claims 5, 12, 16, 38, 45, 49, 71, 78 and 82 have been rewritten in independent form. Claims 6-11 depend from claim 5. Claims 39-44 depend from claim 38. Claims 72-77 depend from claim 71. Accordingly, claims 5-12, 16, 38-45, 49, 71-78 and 82 are allowable.

Claims 19, 52 and 85 were rejected under 35 U.S.C. § 112, first paragraph, as based on a disclosure which is not enabling. Applicants submit that cubes and the use of cubes are defined on page 17, lines 5-18 and Fig. 10 of the present invention. Applicants submit that cubes are defined in Online Analytical Processing (OLAP), which is the subject of numerous articles and is known by one of ordinary skill in the art. For example, the use of cubes in OLAP processing is described in

[http://msdn.microsoft.com/library/default.asp?url=/library/en-us/pdr/PDR\\_Extending\\_OLAP\\_3347.asp](http://msdn.microsoft.com/library/default.asp?url=/library/en-us/pdr/PDR_Extending_OLAP_3347.asp) and Niemi et al., Constructing OLAP Cubes Based on Queries, Proc. 4th ACM International Workshop on Data warehousing and OLAP, Atlanta, GA USA, p. 9-15, 2001, ISBN:1-58113-437-1, submitted herewith on the attached PTO Form-1449. Applicants have amended the term "cubes" to "OLAP cubes" for providing further clarity of the present

invention. Accordingly, the invention defined by the present claims is enabled by the specification.

The previously presented claims were rejected under 35 U.S.C. § 103 as obvious in view of U.S. Patent No. 6,247,032 to Bernardo et al. or in combination with U.S. Patent No. 6,584,480 to Ferrel et al. or U.S. Patent No. 6,128,655 to Fields et al.

The present invention relates to transforming a dynamically changing electronic document in which the transformation is defined once on one or more instances of the dynamically changing electronic document and can then be applied to other versions of that electronic document. Accordingly, the electronic document is dynamic, but the transformation rules are static. The result of applying static transformation rules to a dynamic electronic page is a dynamic virtual page.

Bernardo et al. disclose a software tool for use with a computer system for simplifying the creation of Websites. Templates correspond to different types of Web pages. A Website creator is prompted by the tool to select features desired for the Website. Based on the selections, the tool prompts the creator to supply data to populate fields of the template. The tool generates a customized Website without the Website creator writing any HTML or other programming code.

In contrast to the invention defined by the present claims, Bernardo et al. do not teach or suggest a method or system for transforming a dynamically changing electronic document by receiving feedback from a user through interaction of the user with a visual representation of one or more instances of the document. The feedback is used to generate virtual tags defining a portion of the instance of the electronic document. Rather, Bernardo et al. teach the creation of a website having user specified features by entering content by the use of templates. Moreover, there is no teaching or suggestion of using a virtual tag to identify features of an instance of the electronic document which can be used for dynamically transforming the instance of the electronic document or future versions of the document.

Furthermore, Bernardo et al. do not teach or suggest constructing one or more transformation rules using the virtual tags. In addition, Bernardo et al. do not teach or suggest applying the transformation rules to one or more instances of the electronic document, a second

electronic document having a similar structure as one or more instances of the electronic document or future versions of the original document to dynamically generate a virtual page of customized content extracted from one or more instances of the electronic document, the second electronic document having a similar structure as the original document or the future versions of the electronic document. The present invention provides the feature of transforming a dynamic original electronic document by applying transformation rules to one or more instances of the electronic document, a second electronic document having a similar structure as the electronic document or future versions of the electronic document for dynamically customizing the electronic document. There is no teaching or suggestion in Bernardo et al. of dynamically customizing a Web page by extracting information from an instance of the electronic document, a second electronic document having a similar structure as the electronic document or future versions of the electronic document. Rather, Bernardo et al. teach input of information by the user by using templates which cannot be used for a dynamic application. Accordingly, the invention defined by the present claims is not obvious in view of Bernardo et al.

Ferrel et al. disclose an authorizing environment for producing content for an online system. An environment includes a story editor which can save files in a multimedia document format (MDF) file. The MDF file includes a storage object to hold text of the content in a multimedia publishing markup language.

In contrast to the invention defined by the present claims, Ferrel et al. do not teach or suggest a method or system for transforming a dynamically changing electronic document by receiving feedback from a user through interaction of the user with a visual representation of one or more instances of the electronic document. The feedback is used to generate virtual tags identifying a portion of one or more instances of the electronic document. Furthermore, Ferrel et al. do not teach or suggest constructing one or more transformation rules for extraction of information from a dynamic electronic document and transformation of the electronic document. To the contrary, Ferrel et al. is directed to converting a document into a multimedia document file. Accordingly, Ferrel et al. do not cure the deficiencies of Bernardo et al. noted above and the invention defined by the present claims is not obvious in view of Ferrel et al. in combination with Bernardo et al.

Fields et al. teach an automated system for replicating published Web content and associated advertisements in the context of a hosting Website. The hosting Website brokers a client's browser request for a web page and inserts contents into the web page template including hosting web server format. The recast web page is served to the client's browser. Markup language of HTML, URL and XML can be used.

In contrast to the invention defined by the present claims, Fields et al. do not teach or suggest a method or system for transforming a dynamically changing electronic document by receiving feedback from a user through interaction of the user with a visual representation of one or more instances of the electronic document. The feedback is used to generate virtual tags identifying a portion of the instance of the electronic document. Furthermore, Fields et al. do not teach or suggest constructing one or more transformation rules for extraction of information from one or more instances of the electronic document and transformation of the electronic document. To the contrary, Fields et al. is directed publishing of Web pages with added advertisements and does not transform content of a dynamic document. Accordingly, Fields et al. do not cure the deficiencies of Bernardo et al. noted above and the invention defined by the present claims is not obvious in view of Fields et al. in combination with Bernardo et al.

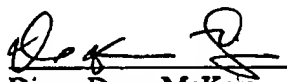
Serial No. 09/750,505

Docket No. 1419-134 US

In view of the foregoing, Applicants submit that all pending claims are in condition for allowance and request that all claims be allowed. The Examiner is invited to contact the undersigned should he believe that this would expedite prosecution of this application. It is believed that no fee is required. The Commissioner is authorized to charge any deficiency or credit any overpayment to Deposit Account No. 13-2165.

Respectfully submitted,

Dated: March 22, 2005

  
Diane Dunn McKay  
Reg. No. 34,586  
Attorney for Applicant

MATHEWS, COLLINS, SHEPHERD & McKAY, P.A.  
100 Thanet Circle, Suite 306  
Princeton, NJ 08540  
Tel: 609 924 8555  
Fax: 609 924 3036

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